

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/00129

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65G33/22 B65G33/30 B29C47/64 B01F15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65G B29C A21C A23N B01F B30B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 35 19 291 A (BATTENFELD GLOENCO EXTRUSION S) 4 December 1986 (1986-12-04)	1-3, 13, 14, 25, 26
Y	column 9, line 11 -column 10, line 5; figures 1, 3A	7-9
Y	column 13, line 50 -column 14, line 12	
Y	US 5 738 935 A (GRILL OTTO ET AL) 14 April 1998 (1998-04-14)	7-9
	column 6, line 60 -column 7, line 6; figure 3	
X	US 3 884 451 A (STENMARK DONALD G ET AL) 20 May 1975 (1975-05-20)	1-3, 13, 14, 26
	column 3, line 30 -column 5, line 26; figures 5-8, 11	
	--- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

5 June 2003

Date of mailing of the international search report

13/06/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Schneider, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 03/00129

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 570 654 A (HILL ALAN HARVEY) 16 March 1971 (1971-03-16) column 2, line 30 - line 48; figure 11	1-3, 8, 9, 13
X	EP 0 930 250 A (DESVOYS S A) 21 July 1999 (1999-07-21) paragraph '0016! - paragraph '0020!; figures 1, 2A, 2B	1-3, 8, 10, 13, 14, 26
X	US 4 193 696 A (VAN HEEL THEODORE ET AL) 18 March 1980 (1980-03-18) column 1, line 59 - column 2, line 57; figures 1, 2	1-3, 14, 25, 26
X	DE 627 045 C (NAAMLOOZE VENNOOTSCHAP MIJ TOT) 12 March 1936 (1936-03-12) page 2, line 65 - line 84	1-3
X	DE 20 15 461 A (SCHWEIZERISCHE INDUSTRIE-GESELLSCHAFT) 12 November 1970 (1970-11-12) page 2, paragraph 1; figures 1, 3	1, 8
X	GB 1 474 484 A (RANKS HOVIS MCDOUGALL LTD) 25 May 1977 (1977-05-25) page 2, line 71 - line 95; figure 3	1, 2, 10
X	FR 1 181 359 A (BUSS AG) 15 June 1959 (1959-06-15) page 1, paragraph 9 - page 2, paragraph 1; figures 4, 6	1, 2
X	GB 1 400 142 A (BERSTORFF GMBH MASCH HERMANN) 9 July 1975 (1975-07-09) page 1, line 48 - line 72; figure 1	1
A	EP 1 084 808 A (JAPAN STEEL WORKS LTD) 21 March 2001 (2001-03-21) paragraph '0015! - paragraph '0017!; figure 1	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/CH 03/00129

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3519291	A	04-12-1986	DE 3519291 A1	04-12-1986
US 5738935	A	14-04-1998	US 5700555 A	23-12-1997
			AT 192074 T	15-05-2000
			AU 710872 B2	30-09-1999
			AU 1963697 A	10-09-1997
			BR 9714753 A	30-05-2000
			CA 2250161 A1	28-08-1997
			CN 1246090 A	01-03-2000
			CZ 9802615 A3	13-10-1999
			DE 69701793 D1	31-05-2000
			EP 0883482 A1	16-12-1998
			ES 2146984 T3	16-08-2000
			GR 3033948 T3	30-11-2000
			JP 2000505373 T	09-05-2000
			NZ 331425 A	27-03-2000
			PL 328470 A1	01-02-1999
			PT 883482 T	31-10-2000
			WO 9730838 A1	28-08-1997
			US 5858522 A	12-01-1999
US 3884451	A	20-05-1975	DE 2461320 A1	08-07-1976
			FR 2296516 A1	30-07-1976
			GB 1495740 A	21-12-1977
			BE 824139 A1	07-07-1975
			US 4045401 A	30-08-1977
US 3570654	A	16-03-1971	AT 324675 B	10-09-1975
			CH 486375 A	28-02-1970
			DE 1914617 A1	13-11-1969
			FR 2004456 A5	21-11-1969
			GB 1266142 A	08-03-1972
EP 0930250	A	21-07-1999	EP 0930250 A1	21-07-1999
US 4193696	A	18-03-1980	AU 520034 B2	14-01-1982
			AU 3650178 A	29-11-1979
			DE 2822778 A1	07-12-1978
			SE 430855 B	19-12-1983
			SE 7805895 A	27-11-1978
DE 627045	C	12-03-1936	NONE	
DE 2015461	A	12-11-1970	CH 510512 A	31-07-1971
			DE 2015461 A1	12-11-1970
GB 1474484	A	25-05-1977	BE 837743 A1	14-05-1976
			DE 2601722 A1	22-07-1976
			DK 15676 A	21-07-1976
			FR 2297791 A1	13-08-1976
			IE 41996 B1	07-05-1980
			IT 1054811 B	30-11-1981
			LU 74210 A1	23-07-1976
			NL 7600484 A	22-07-1976
			SE 7600369 A	21-07-1976
FR 1181359	A	15-06-1959	NONE	

INTERNATIONAL SEARCH REPORT

ation on patent family members

Intern Application No

PCT/03/00129

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 1400142	A	09-07-1975	DE	2307616 A1	05-09-1974
			FR	2218184 A1	13-09-1974
			IT	1008215 B	10-11-1976
EP 1084808	A	21-03-2001	EP	1084808 A1	21-03-2001